# CONSTRUCTION PLANS FOR

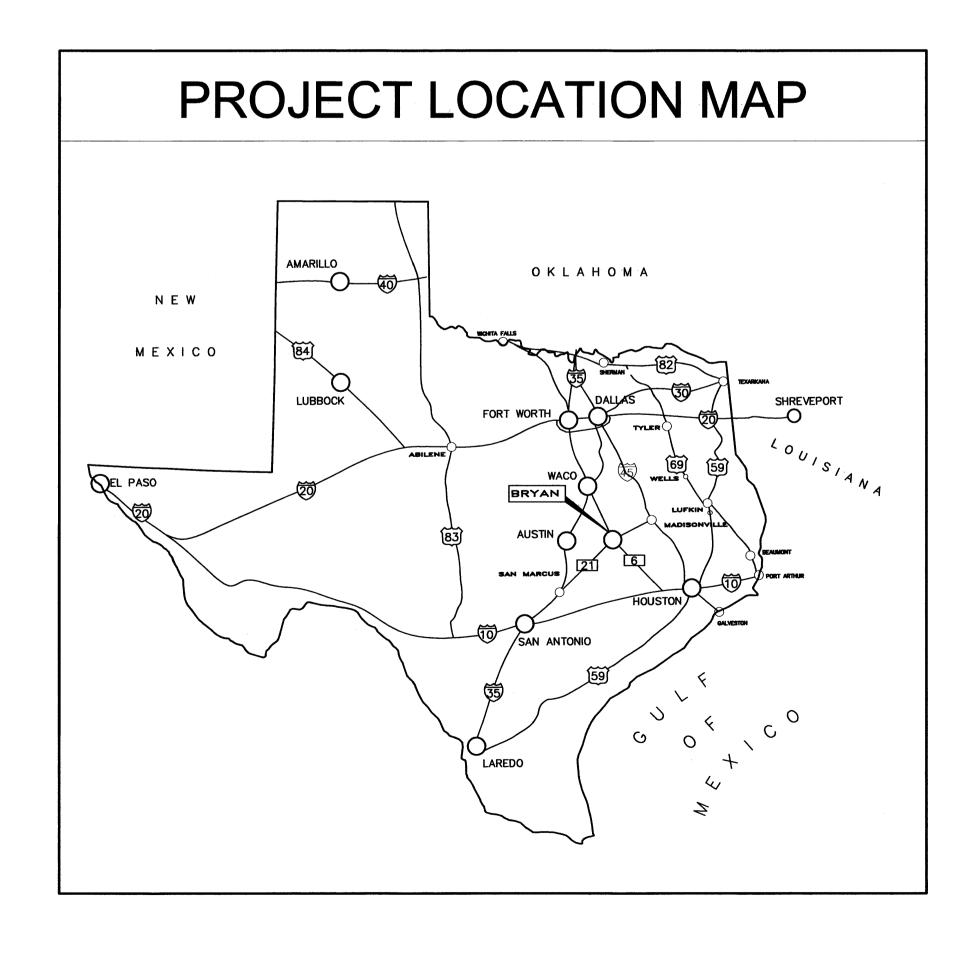
### CITY OF BRYAN

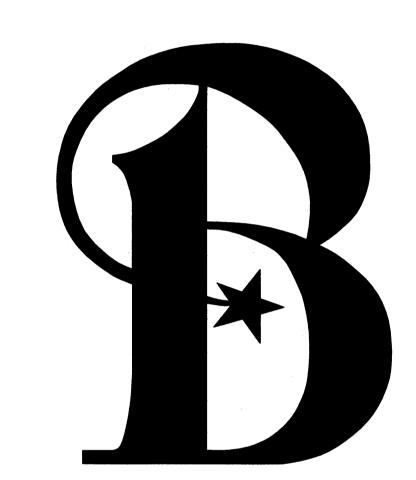
P.O. BOX 1000 BRYAN, TEXAS 77805

## KENT STREET EXTENSION

CITY OF BRYAN JOB # 332/611-DE-0404 NOVEMBER, 2005

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### CITY OF BRYAN

The Good Life, Texas Style.

Submitted:

Goodwin-Lasiter, Inc.

JOHN RUSK ter, Inc. 87884

#### **MAYOR & CITY COUNCIL**

Ernie Wentrcek	Mayor
Joe Marin	City Council
Paul Madison	City Council
Mark Conlee	City Council
Ben Hardeman	City Council
Russell Bradley	City Council
Jason Bienski	City Council

#### **CITY ADMINISTRATION & STAFF**

Mary Kaye Moore	City Manage
Linda Grubbs Huff, P.E	City Enginee
Richard Reynosa, E.I.T	Project Manage

### PREPARED BY:



### GOODWIN-LASITER, INC.

ENGINEERS - ARCHITECTS SURVEYORS

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#### **GENERAL NOTES**

- 1. CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE CITY OF BRYAN AND THESE SPECIFICATIONS/PLANS.
- CONTRACTOR SHALL VISIT THE CONSTRUCTION LOCATION AND FAMILIARIZE THEMSELVES WITH THE WORKING CONDITIONS (TRAFFIC, CLEARING, PROPOSED/EXISTING UTILITIES, PAVING, DRAINAGE) OF THE SITE BEFORE
- 3. CONTRACTOR IS TO DETERMINE ALL QUANTITIES OF WORK PRIOR TO BIDDING TO PROVIDE A COMPLETE AND APPROVED PROJECT TO THE CITY.
- 4. THE CONTRACTOR IS REQUIRED TO ATTEND A PRE-CONSTRUCTION MEETING WITH CITY ENGINEERR, CITY INSPECTOR AND CONSULTING ENGINEER PRIOR TO STARTING WORK. NO WORK IS TO BE PERFORMED UNTIL THIS MEETING IS COMPLETED AND A WRITTEN NOTICE TO PROCEED IS ISSUED BY THE CITY ENGINEER TO THE CONTRACTOR. MONTHLY CONSTRUCTION MEETINGS ON SITE DURING CONSTRUCTION ARE ALSO TO BE SCHEDULED WITH THE CITY ENGINEER AND INSPECTOR.
- IN THE ABSENCE OF SPECIFIC REQUIREMENTS FOR ANY WORK, CONTRACTOR SHALL COORDINATE WITH CITY INSPECTOR. PROCEEDING WITHOUT PROPER DIRECTION FROM THESE PARTIES WILL BE AT THE CONTRACTORS SOLE RISK. CONTRACTORS ARE NOT TO PROCEED WITH ANY WORK WITHOUT PROPER AUTHORIZATION OF
- 6. CONTRACTOR TO MAINTAIN SITE IN "FIRST CLASS" NEAT CONDITION. WORK SITE SHALL BE CLEANED UP AT END OF EACH DAY.
- 7. CONTRACTOR SHALL COORDINATE SEQUENCE OF CONSTRUCTION WITH CITY ENGINEER'S OFFICE.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND SERVICE LINES PRIOR TO EXCAVATING FOR UTILITY PLACEMENT. LOCATING METHODS INCLUDE, BUT ARE NOT LIMITED TO: LOCATING SERVICES, "POT HOLING" WITH WATER, SPOT DIGGING, ETC.
- CONTRACTOR TO PROTECT UTILITIES FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR DAMAGES RESULTING FROM THEIR ACTIVITIES. COSTS FOR REPAIRS ARE THE RESPONSIBILITY OF THE
- 10. CONTRACTOR SHALL NOTIFY AND CITY ENGINEER'S OFFICE IMMEDIATELY WHERE UNKNOWN UTILITIES ARE ENCOUNTERED IN CONSTRUCTION.
- 11. CONTRACTOR TO COORDINATE WORK WITH THE FOLLOWING UTILITY COMPANIES, AGENCIES, AND THE CITY: WATER & SEWER . . . . . . . . . . CITY OF BRYAN. . . . . . . . . . . . . . . . . (979)209-5900
- 12. CONTRACTOR TO CONTACT UTILITY, PIPELINE COMPANIES FORTY-EIGHT (48) HOURS IN ADVANCE OF WORK IN THE VICINITY OF THEIR LINES. TEXAS ONE CALL SYSTEM IS ENCOURAGED.
- 13. CONTRACTOR TO MAINTAIN CLEARANCE OF ALL EXISTING UTILITIES AS REQUIRED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND THESE PLANS.
- 14. REMOVE AND DISPOSE OF ALL MATERIALS AND STRUCTURES THAT ARE TO BE DEMOLISHED AND NOT NOTED FOR SALVAGE TO CONTRACTOR DESIGNATED DISPOSAL AREA. EXISTING CURBS, CULVERTS, GRAVEL ROADWAY AND DRAINAGE RELATED STRUCTURES WITHIN RIGHT-OF-WAY ARE TO BE REMOVED COMPLETELY. THIS WORK SHALL BE DONE IN ACCORDANCE W/TxDOT STANDARD SPECIFICATION 100 "PREPARING R.O.W."
- 15. CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE TRAFFIC PLAN. PROVIDE PROPER SIGNING FOR CONSTRUCTION, SAFETY, AND ROUTING OF TRAFFIC. POSITIONING AND CONTENT OF SIGNS, BARRICADES AND FLAGGING SHALL BE IN ACCORDANCE WITH THE CURRENT TEXAS MUTCD.
- 16. CONTRACTOR TO PROVIDE BARRICADES, SIGNS, AND LIGHTING AROUND ALL OPEN CUTS ALONG STREETS IN ACCORDANCE WITH THE TEXAS MUTCD.
- 17. CONTRACTOR TO MAINTAIN ACCESS TO RESIDENCES/BUSINESSES. DRIVE-WAYS SHALL NOT BE IMPASSABLE OVERNIGHT.
- 18. A FIELD SET OF AS-BUILT DRAWINGS SHOULD BE MAINTAINED BY THE CONTRACTOR FOR TRANSFER TO PERMANENT RECORD DRAWINGS. THESE DRAWINGS SHOULD INCLUDE MEASUREMENTS FROM EACH UNIT INSTALLED TO TWO PERMANENT OBJECTS. UTILITY SERVICE LOCATIONS SHOULD ALSO BE DOCUMENTED. PROJECT WILL NOT BE CLOSED OUT UNTIL CONTRACTOR HAS PROVIDED THESE FIELD SET(S) TO THE CITY ENGINEER'S OFFICE.
- 19. CONTRACTOR TO STORE MATERIALS AT LOCATION(S) APPROVED BY & COORDINATED WITH THE OWNER. EQUIPMENT IS TO BE STORED OVERNIGHT AT LOCATIONS SO AS NOT TO BLOCK STREETS OR DRIVES. MATERIALS ARE TO BE PROTECTED FROM DAMAGE BY THE ELEMENTS.
- 20. CONTRACTOR TO MAINTAIN ADEQUATE SITE DRAINAGE FACILITIES AS REQUIRED DURING CONSTRUCTION. PROTECT EXCAVATIONS FROM FLOODING DUE TO GROUNDWATER INFILTRATION AND RUN-OFF. INSURE THAT NO DRAINAGE ON OR OFF THE SITE IS BLOCKED BY PROPOSED CONSTRUCTION.
- 21. CONSTRUCTION AREAS ARE TO BE CLEARED/GRUBBED COMPLETELY OF TREES, BRUSH, STUMPS, ROOTS, PIPES, PAVEMENT AND ALL RUBBISH. COST OF CLEARING TO COMPLETE ALL IMPROVEMENTS TO BE INCLUDED IN BID TO
- 22. CONTRACTOR TO BE RESPONSIBLE FOR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND EROSION CONTROL DURING AND AFTER CONSTRUCTION. CONTRACTOR SHALL INSTALL EROSION AND SILT CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION AND SHALL REMOVE TEMPORARY MEASURES WHEN PERMANENT COVER IS ESTABLISHED.
- 23. CONTRACTOR IS RESPONSIBLE FOR O.S.H.A. ESTABLISHED TRENCH SAFETY AS DESCRIBED IN THE FEDERAL REGISTER 29 CFR PART 1926 FOR EXCAVATION EXCEEDING 5'. A TRENCH SAFETY PLAN SHOULD BE PREPARED AND A "COMPETENT PERSON" APPOINTED PRIOR TO ANY AND ALL EXCAVATING OPERATIONS EXCEEDING 5' DEPTH. THE PLAN IS TO BE PREPARED AND SEALED BY A REGISTERED TEXAS PROFESSIONAL ENGINEER AND SHALL BE SUBMITTED TO THE CITY OF BRYAN PRIOR TO ANY EXCAVATION ON THE PROJECT.
- 24. EXISTING GRADES SHALL BE RE-ATTAINED AND PROPOSED GRADES SHALL BE ATTAINED BY SHAPING BACKFILL MATERIAL BY CUT AND FILL OPERATIONS. FILL OPERATIONS ARE TO BE ACCOMPLISHED BY PLACING MATERIAL IN 6-INCH (LOOSE MEASURE) LIFTS AND 98% DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR). AS NOTED IN DETAILS. CONTRACTORS (BIDDERS) ARE TO PERFORM THEIR OWN QUANTITIES DETERMINATION PRIOR TO BIDDING. ALL EARTHWORK TO BE INCLUDED IN BID.
- 25. FINISHED GRADES TO BE SLOPED TO PROVIDE PROPER DRAINAGE.
- 26. SELECT BORROW MATERIAL SHALL HAVE A PLASTICITY INDEX (PI) OF 4 TO 15.
- 27. CONTRACTORS ARE TO COORDINATE THE HOLDING/SUPPORT OF UTILITY POLES WHERE NECESSARY TO FACILITATE CONSTRUCTION. ALL COORDINATION WITH UTILITY COMPANIES IS TO BE INCLUDED WITH BID ITEMS FOR WORK TO BE PERFORMED.
- 28. CULVERTS DISTURBED/DAMAGED BY CONSTRUCTION ARE TO BE RESET/REPLACED AT NO ADDITIONAL COST.
- 29. ON CROSSING OF PAVED ROADS AND DRIVES WHERE TYPE OF CONSTRUCTION IS NOT OTHERWISE INDICATED. THE CONTRACTOR MAY DRILL IN LIEU OF OPEN-CUT AND PAVEMENT REPLACED. CONTRACTOR TO MAINTAIN ACCESS TO RESIDENCES. DRIVEWAYS SHALL NOT BE IMPASSABLE OVERNIGHT. DIRT OR GRAVEL DRIVES MAY BE OPEN CUT PROVIDED THEY ARE BACK FILLED AS DETAILED.
- 30. ALL EARTHENED AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REGRADED. HYDROMULCHED. AND FERTILIZED. SODDING IS REQUIRED WHEN FINISHED SLPES ARE 5:1 OR GREATER. THIS WORK SHALL BE DONE AS OUTLINED IN THE SPECIFICATION.
- 31. ITEMS ASSOCIATED WITH GAS SYSTEM ARE TO REMAIN. CONFLICTS TO BE REPORTED TO CITY INSPECTOR. GAS FACILITY OWNER WILL BE NOTIFIED TO ADDRESS THE CONFLICT.
- 32. CONTRACTOR TO HAVE ANY EXISTING UTILITIES PRECISELY LOCATED INCLUDING DEPTH PRIOR TO EXCAVATION
- 33. SURVEYING DATA USED FOR THE BASIS OF DESIGN WAS PROVIDED BY MCCLURE & BROWNE ENGINEERING/ SURVEYING, INC. CONTRACTOR TO VERIFY COORDINATE AND BENCH MARKS WITH THE SURVEYOR PRIOR TO COMMENCING WORK.

#### **PAVING NOTES**

- 34. CONCRETE DESIGN, MATERIALS, AND WORKMANSHIP TO CONFORM TO THE CURRENT EDITION OF THE FOLLOWING STANDARDS UNLESS OTHERWISE MODIFIED ON THE DRAWINGS IN THE SPECIFICATIONS:
  - ACI 318-02 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" NCTCOG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 35. MATERIALS TO BE AS FOLLOWS:
  - CONCRETE 28-DAY COMPRESSIVE STRENGTH = 4000 PSI (F'C) REINFORCING STEEL - ASTM A615, GRADE 60
- 36. THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL, UNLESS OTHERWISE SHOWN:
  - 3" CONCRETE CAST DIRECTLY AGAINST THE GROUND 2" - FORMED SURFACES OR TOP OF FINISHED SURFACES
- 37. LAP REINFORCING STEEL IN ACCORDANCE WITH ACI 318-02 (CLASS B).
- 38. PAVING RECONSTRUCTION IS NOT TO PROCEED UNTIL UTILITY & DRAINAGE CONSTRUCTION IS SUCCESSFULLY TESTED, NEW SYSTEM IS OPERATING, & ABANDONMENT OF OLD SYSTEM IS
- 39. EXCESS DIRT FROM STREET EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR.
- 40. FINISHED GRADES TO BE SLOPED TO PROVIDE PROPER DRAINAGE.
- 41. STREET CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE CITY OF BRYAN AND THESE SPECIFICATIONS/PLANS.
- 42. PAVEMENT TIE-INS TO EXISTING PAVEMENT TO BE SUBSIDIARY TO THE PERTINENT BID ITEMS.
- 43. COORDINATE CONSTRUCTION CLOSELY WITH CITY TO ASSURE NO CONFLICTS BETWEEN GRADING. DRAINAGE AND PAVING IMPROVEMENTS.
- 44. PROPOSED PAVEMENT ELEVATIONS SHOWN ARE TOP OF FINISHED PAVEMENT (P), OR CURB (T) AS NOTED. PROPOSED FLOWLINE ELEVATIONS ARE NOTED (FL).
- 45. PROVIDE EXPANSION JOINTS AND CONTROL JOINTS IN ACCORDANCE WITH CITY OF BRYAN STANDARD SPECIFICATION AND DETAILS. CURB AND GUTTER SHALL HAVE 1/2" PREMOLDED OR 3/4" REDWOOD OR CYPRESS EXPANSION JOINT EVERY 50 FT. AND SHALL HAVE GROOVED CONTROL JOINTS AT 10 FT. ALL JOINTS WILL BE SEALED WITH SIKA FLEX LM OR APPROVED
- 46. ALL FORMS MUST BE WELL STAKED AND THOROUGHLY BRACED SO THAT TAMPING OF MATERIALS WILL NOT DISTURB THEM OR MOVE THEM OUT OF LINE.
- 47. CARE MUST BE TAKEN THAT THE CURB AND GUTTER SHALL NOT SHOW TROWEL MARKS, HIGH SPOTS. SAGS OR HORIZONTAL DEFLECTIONS AND ANY SECTION SHOWING SAME AFTER BEING FINISHED WILL BE CONDEMNED BY THE CITY OF BRYAN AND MUST BE REPLACED BY THE
- 48. THE COMPLETED PAVEMENT SHALL BE CURED BY A METHOD APPROVED BY THE CITY OF BRYAN. LIQUID MEMBRANE CURING COMPOUND WHICH COMPLIES WITH THE "STANDARD SPECIFICATIONS FOR LIQUID MEMBRANE FORMING COMPOUNDS FOR CURING CONCRETE", ASTM C309 TYPE 2 WHITE PIGMENTED MAY BE USED.

**Existing** 

UNDERGROUND PETROLEUM/PIPELINE

SANITARY SEWER (SIZE SHOWN) WATER LINE (SIZE SHOWN)

UNDERGROUND ELECTRIC LINE

UNDERGROUND TELEPHONE LINE

UNDERGROUND FIBER OPTIC CABLE

NATURAL GAS LINE

OVERHEAD ELECTRIC

OVERHEAD CABLE TV

BARBED WIRE FENCE

SANITARY SEWER MANHOLE

SANITARY SEWER CLEANOUT

CHAINLINK FENCE

FIRE HYDRANT

WATER VALVE

POWER POLE

WATER METER

MAILBOX

**TELEPHONE BOX** 

**OVERHEAD TELEPHONE** 

#### **Bench Mark List DESCRIPTION ELEVATION** | CHISELED SQUARE IN BACK OF CURB 321.61 ON SOUTH SIDE OF KENT STREET APPROXIMATELY 200' EAST OF THE **BROADMOOR/KENT INTERSECTION**

2187	CHISELED SQUARE IN EXISTING INLET ON NORTH SIDE OF KENT STREET APPROXIMATELY 35' NORTHEAST OF THE MEMORIAL/KENT INTERSECTION	329.08
1539	CHISELED "X" IN CONCRETE ON THE EAST SIDE OF BROADMOOR APPROXIMATELY 82' NORTHEAST OF THE BROADMOOR/KENT INTERSECTION	327.59
1538	CHISELED "X" IN CONCRETE ON THE	327.77

EAST SIDE OF BROADMOOR

APPROXIMATELY 85' NORTHEAST OF

THE BROADMOOR/KENT INTERSECTION

NO.



NOTE: CONTRACTOR SHALL NOTIFY ONE CALL SYSTEM AND SHALL NOTIFY ANY OTHER UTILITIES WHICH ARE SUSPECTED IN THE PROJECT AREA WHO MAY NOT SUBSCRIBE TO THE TEXAS ONE CALL SYSTEM.

SITE

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JOHN RUSK

CENSEN

1/11/06

xtensio

Street

87884

# BENCH MARK LIST UTILITY LOCATING SERVICE SOUTH CAMPUS FRANCISCAN **KENT STREET IMPROVEMENTS** KOCH \_\_\_\_\_ WINDSOR 1179 ' HILLCREST CARTER

BENCH MARK/CONTROL POINT Proposed

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**PAVING NOTES** 

PROPOSED MANHOLE PROPOSED 8" WATERLINE



PROPOSED ASPHALT PROPOSED CONCRETE

PROPOSED REDUCER

PROPOSED WATER VALVE

PROPOSED STORM SEWER

PROPOSED FIRE HYDRANT ASSEMBLY

LEGEND

VICINITY MAP

Ross

Park

of

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CONTRACT NO.

SHEET NO.

600020

**GENERAL NOTES** 

8

SPRING

1"=500"

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